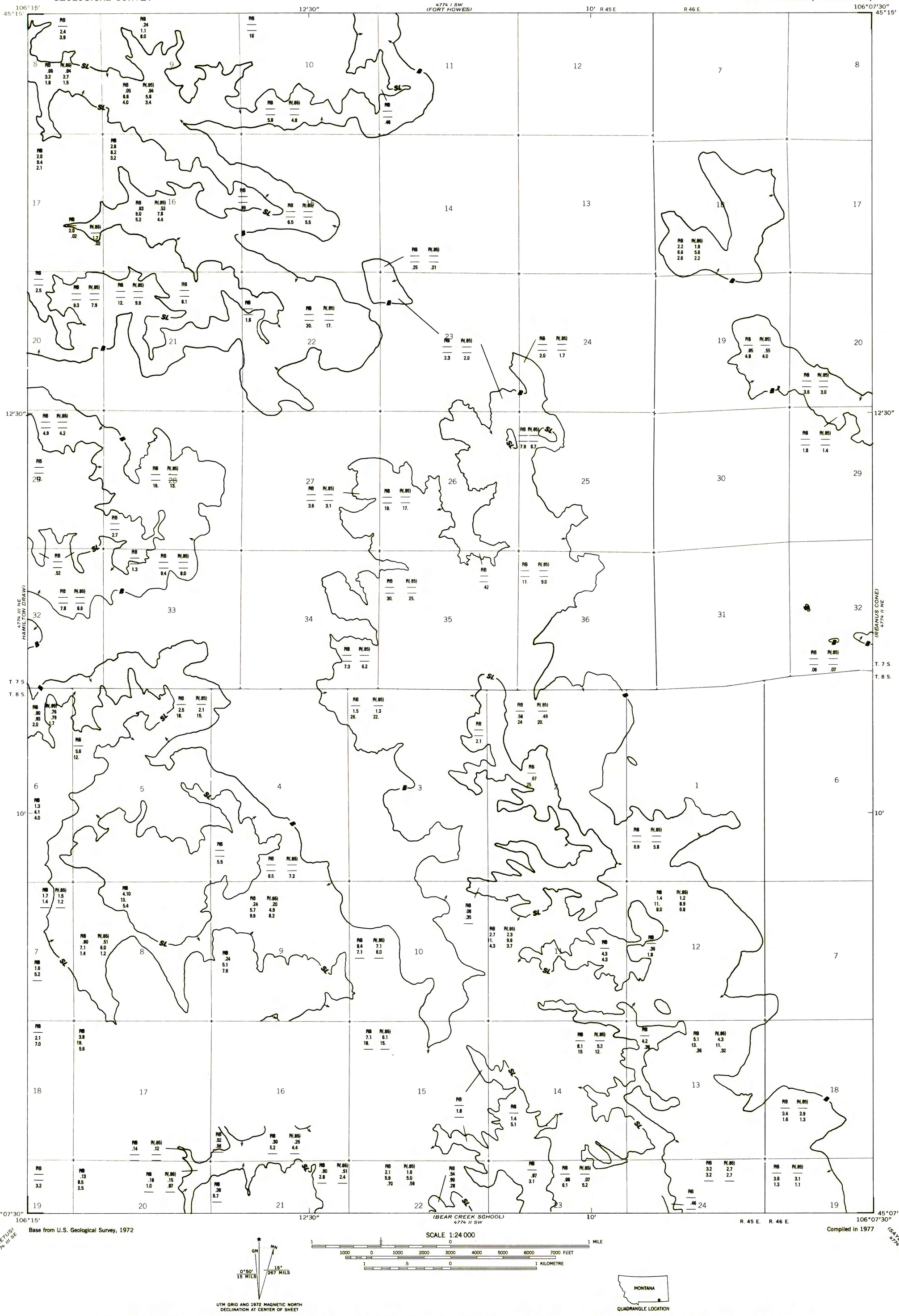
UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

OTTER QUADRANGLE
MONTANA—POWDER RIVER CO.
7.5 MINUTE SERIES (TOPOGRAPHIC)

4774 I SE (POKER JIM BUTTE)
4774 I SW (FORT HOWES)
4774 I SE (GOODSPEED BUTTE)
4774 III NE (HAMILTON DRAW)
4774 II NE (REANUS CONE)
4774 III SE (QUIETUS)
4774 II SW (BEAR CREEK SCHOOL)
4774 II SE (SAYLE HALL)

106°15′ 12′30″ 10′ R 45 E R 46 E 106°07′30″
45°15′ 45°07′30″



Base from U.S. Geological Survey, 1972

SCALE 1:24 000

1 0 1 MILE
1000 0 1000 2000 3000 4000 5000 6000 7000 FEET
1 .5 0 1 KILOMETRE

GN MN
0°50′ 15 MILS
15° 267 MILS
UTM GRID AND 1972 MAGNETIC NORTH DECLINATION AT CENTER OF SHEET

MONTANA
QUADRANGLE LOCATION

Compiled in 1977

COAL RESOURCE OCCURRENCE AND COAL DEVELOPMENT POTENTIAL MAPS OF THE OTTER QUADRANGLE, POWDER RIVER COUNTY, MONTANA

BY

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OPEN-FILE REPORT
This report has not been edited for conformity with U.S. Geological Survey editorial standards or stratigraphic nomenclature

OPEN FILE REPORT 79-105

PLATE 18 OF 59

EXPLANATION

SL — STRIPPING LIMIT LINE--Boundary for surface mining of the coal bed (in this quadrangle, the 200-foot-overburden isopach). Arrows point toward the area suitable for surface mining. Recovery factor of 85 percent within that area in this quadrangle.

B — BOUNDARY OF RESERVE BASE COAL--Drawn along the outcrop of coal bed or the contact between burned and unburned coal. Arrows point toward area of Reserve Base coal.

RB R(.85)
1.4 1.2 (Measured resources)
11. 8.9 (Indicated resources)
8.0 6.8 (Inferred resources)

IDENTIFIED STRIPPABLE COAL RESOURCES--Showing totals for Reserve Base (RB) and Reserves (R), in millions of short tons, for each section or part(s) of section of Federal coal land within the stripping-limit line. Dash indicates no resources in that category. Reserve Base (RB) x the Recovery Factor (85 percent) = Reserves (R). Rounded to two significant figures.

RB
.80 (Measured resources)
2.8 (Indicated resources)
— (Inferred resources)

IDENTIFIED NON-STRIPPABLE COAL RESOURCES--Showing totals for Reserve Base (RB), in millions of short tons, for each section or part(s) of section of Federal coal land outside the stripping-limit line. Dash indicates no resources in that category. Rounded to two significant figures.

Recovery factors have not been established for underground development of coal in this quadrangle. Therefore, Reserves (R) were not calculated for the coal bed in areas outside the stripping-limit line where the overburden thickness exceeds 200 feet (61 m).

To convert short tons to metric tons, multiply by 0.907.

To convert miles to kilometers, multiply miles by 1.6.

PLATE 18
IDENTIFIED RESOURCES OF THE CANYON COAL BED